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Appln No. 10/633,944 Reply to Office Action of 01/11/07

AMENDMENTS TO THE CLAIMS

 (withdrawn) The method of building a tire carcass on a first stage tire building drum comprises the steps of:

applying unvulcanized tire building components on the first stage tire building drum to form a cylindrically shaped unvulcanized tire careass having careass ends;

placing a pair of tire apex and bead subassemblies in parallel relation around the first stage drum in spaced relation from the cylindrical tire carcass thereon, such that the carcass ends of the tire carcass extend laterally beyond the apex and bead subassemblies;

locking the beads by radially expanding bead lock mechanisms forcing the carcass into engagement with the beads; moving the carcass radially outwardly between the bead locks by radially expanding a central segment support mechanism including a plurality of central support segments that are covered by an inflatable pair of turnup bladders while simultaneously axially inwardly moving the pair of bead locks;

turning up the tire carcass ends following a radially outward extending contour at least halfway along the apex and bead subassemblies to an axially inwardly extending end;

stitching the turnups to form a partially radially extending turnup.

- (withdrawn) The method of claim 1 further comprises inflating through the central segment support mechanism to toroidally shape the carcass.
- 3. (withdrawn) The method of claim 1 wherein the step of moving the carcass radially outwardly between the bead locks includes moving the segments a distance D, D being at least 30 mm.

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- 4. (withdrawn) The method of claim 3 wherein each of the bead locks moves a distance axially inwardly equal to the radial movement of the central support segments.
- 5. (presently amended) A tire building drum having a right hand side and a left hand side, the tire building drum comprising:
 - a central screw;
 - a pair of inflatable turnup bladders,
 - a central segment support mechanism having a plurality of radially expandable segments, said segments having cam followers in engagement with cam surfaces of a cone mechanism, wherein the cone mechanism is actuatable independently of said central screw; and
 - a pair of bead locks, each bead lock being mounted on axially movable housings connected to the central screw and axially movable upon rotation of the central screw-.
- 6. Canceled
- 7. (new) The tire building drum of claim 5 wherein the cone support mechanism is not axially movable.
- 8. (New) A tire building drum having a right hand side and a left hand side, the tire building drum comprising:
 - a central screw;
 - a central segment support mechanism having a plurality of radially expandable segments, said segments having cam followers in engagement with cam surfaces of a cone mechanism, a pair of bead locks, each bead lock being mounted on axially movable housings connected to the central screw and axially movable upon rotation of the central screw;

wherein the cone mechanism is not connected to the bead locks.

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This listing of claims will replace all prior versions and listings of claims in the application.

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